

Supportability Evaluation of System Architectures

Abstract of the Invention

[000207]

A system, method and computer program product is disclosed for evaluating system architectures from a long term sustainability perspective, sustainability in the presence of rapidly evolving information and networking technology, rapidly evolving customer requirements and expectations, and rapidly evolving standards and protocols. The multi-attribute architecture evaluation method can include specific architectural characteristics. At the top level the present invention can include four architectural characteristics or attributes: modularity, commonality, standards-based, and reliability/maintainability/testability (RMT). The attributes can be further classified into sub-attributes and metrics to facilitate the comparative evaluation of candidate system architectures. In an exemplary embodiment of the present invention a decision support system, method and CPP for evaluating supportability of alternative system architecture designs is disclosed including: an analytic hierarchy process (AHP) model including a plurality of attributes, wherein the plurality of attributes includes: a commonality attribute; a modularity sub-attribute; a standards based sub-attribute; and a RMT sub-attribute. The present invention in an exemplary implementation can be embedded within a commercially available AHP shell, to facilitate adaptation to specific domains.

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